1B2A23039

(Pages : 2)

Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester BA Economics Degree Examination, April 2023

BEC2B02 – Micro Economics II

(2022 Admission onwards)

Time: 2 ½ hours

Max. Marks : 80

SECTION A

Short answer questions: maximum mark is 25
Students can attend all questions. Each question carries 2 marks

1. Distinguish between monopoly and monopsony
2. Distinguish between collusive and non-collusive oligopoly
3. What is cartel
4. What do you mean by multiplant firm
5. What is dumping
6. What is subsidy
7. What do you mean by shut down point
8. Write a note on AR and MR curve in a perfectly competitive market
9. What do you mean by excess capacity in a monopolistic competition
10. Write a note on supply curve of a monopolist
11. Explain in brief marginal productivity theory of input demand
12. What are the functions of market
13. What is two part tariff
14. Distinguish between firm and industry
15. Briefly explain the concept of monopsony power

SECTION B

Paragraph type questions: maximum mark is 35
Students can attend all questions. Each question carries 5 marks

16. Explain constant, increasing and decreasing cost industries
17. Describe group equilibrium
18. Distinguish between demand curve of a firm for one variable input and several variable inputs
19. Write a note on peak load pricing
20. What is monopoly power? How is it measured

21. What is market supply of inputs

22. Enunciate Cournot model of duopoly

23. How is price determined in a perfectly competitive market

SECTION C

Essay type questions: maximum mark is 20

Students can attend any two. Each question carries 10 marks

24. Describe competitive factor market. How do demand and supply impact factor markets

25. What is oligopoly? Explain kinked demand curve model in an oligopoly market

26. Diagrammatically explain equilibrium in a monopoly market

27. What is monopolistic competition? How is short run and long run equilibrium is achieved in a monopolistically competitive market

1B2A23040 (Pages : 2) Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester BA Economics Degree Examination, April 2023

BEC2C02 – Mathematical Methods for Economics II

(2022 Admission onwards)

Time: 1 ½ hours Max. Marks : 40

PART A
(Very Short Answer Type Questions. Each question carries 2 marks)

1. Define Harmonic Progression with an example.
2. Define rank of a matrix.
3. Which of the following sequences is the odd one out, and why?
   (A) 2, 4, 6, 8, 10 (B) 3, 9, 27, 81, 243 (C)2, 4, 8, 16, 32
4. What does the symbol 'lim' in mathematics represent?
5. Find the determinant of the matrix. $\begin{bmatrix} 3 & -1 \\ 0 & a \end{bmatrix}$
6. Differentiate the function $X^2 + YZ + X$ with respect to X.
7. Which of the following Matrix is the odd one out, and why?

   (A) $\begin{bmatrix} a & b \\ a & d \end{bmatrix}$ (B) $\begin{bmatrix} X & Y \\ Z & 1 \end{bmatrix}$ (C) $\begin{bmatrix} a \\ b \\ 6 \end{bmatrix}$

(Ceiling 10 marks)

PART B
(All questions may be answered. Each question carries 5 marks)

8. Write a short note on difference between present value and future value in economics and finance?
9. Define first order and second order derivates of the following function with respect to X, where $P = 2X^3 + 3Y + 4X$.
10. Evaluate the following limits: $\lim_{x \to 2} \frac{x^2 - 12x + 18}{x^2 - 4}$
11. What is the definition of continuity of a function at a point, and how is it related to the limit of the function at that point?
12. Find $\frac{d^2Y}{dX^2}$ if $Y = X^5 - 8X + Z$ where Z is a constant.

(Ceiling 20 marks)

PART C

(Answer any one of the following. Each question carries 10 marks)

13. Solve using Matrix Method:

$2X - 6Y + Z = -17$

$3X + Y + 2Z = 7$

$4X + 3Y + 5Z = 26$

14. A man deposited Rs 15000 in a bank at the rate of 8.5% compound interest annually. Find the amount in 16^{th} year since he deposited the amount.

(1 x 10 =10 marks)